

Figure 1 shows a 1D lattice chain with  $N$  sites. The sites are labeled  $1, 2, \dots, N$ . The chain is divided into two parts by a vertical dashed line. The left part contains sites  $1$  to  $N/2$ , and the right part contains sites  $N/2+1$  to  $N$ . The sites are connected by horizontal lines representing nearest-neighbor interactions. The diagram is labeled "Fig. 1" at the bottom.

A



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**Assistant Commissioner for Patents**  
**Box Patent Application**  
**Washington, DC 20231**

1. ☒ **Fee Transmittal Form**  
(Submit an original, and a duplicate for fee processing)
2. ☒ **Specification** [Total Pages **18**]  
(preferred arrangement set forth below)
- Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ **Drawing(s) (35 USC 113)** [Total Sheets: **6**]
4. **Oath or Declaration** [Total Pages : **3**]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 17 completed)  
**[Note Box 5 below]**
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
5. ☐ **Incorporation By Reference** (useable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (*Appendix*)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement  
(when there is an assignee) ☐ Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure  
Statement (IDS)/PTO-1449 ☐ Copies of IDS  
Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
14. ☐ Small Entity  
Statement(s) ☐ Statement filed in prior application,  
Status still proper and desired
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Other:

**17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:**

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: \_\_\_\_\_

## 18. CORRESPONDENCE ADDRESS

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[Page 1 of 2]

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# FEE TRANSMITTAL FORM

Attorney Docket No.: **43239**

ASSISTANT COMMISSIONER OF PATENTS  
**BOX: PATENT APPLICATION**  
Washington, D.C. 20231

Transmitted herewith for filing is the patent application of

Inventor(s): **Toshio Saito et al.**

For: **INSERT MOLDING METHOD AND METAL MOLD**

The filing fee for filing this patent application has been calculated as follows:


		(Col. 1)	(Col. 2)	SMALL ENTITY		OR OR	OTHER THAN A SMALL ENTITY	
FOR:		NO. FILED	NO. EXTRA	RATE	FEE		RATE	FEE
BASIC FEE					<b>\$370.00</b>			<b>\$740.00</b>
TOTAL		<b>4</b>	- 20= <b>0</b>	x 9 = \$			x 18 = \$	
INDEP		<b>2</b>	- 3= <b>0</b>	x 40 = \$			x 80 = \$	
<input checked="" type="checkbox"/> MULTIPLE DEPENDENT CLAIMS				+ 135 = \$			+ 270 = \$	
If the difference in Col. 1 is less than zero, enter "0" in Col. 2				TOTAL	\$		TOTAL	<b>\$740.00</b>

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☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 18-2220. A duplicate copy of this sheet is attached.

- ☒ Any additional patent application filing fees under 37 CFR 1.16.
- ☒ Any additional patent application processing fees under 37 CFR 1.17.

Dated: Nov. 28, 2001

  
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